## PATENT ABSTRACTS OF JAPAN

(11)Publication number:

09-230391

(43) Date of publication of application: 05.09.1997

(51)Int.CI.

G02F 1/19

(21)Application number : **08-038279** 

38279 (71)Applicant: FUJIKURA LTD

(22)Date of filing:

**26.02.1996** (72)I

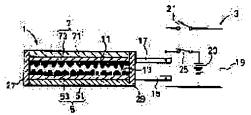
(72)Inventor: FURUICHI KENJI

IMAI TAKAYUKI GOTO MORITAKA

## (54) RE-DISPERSION OF ELECTRIC FIELD ARRANGEABLE PARTICLE

(57) Abstract:

PROBLEM TO BE SOLVED: To make it possible to rapidly re-disperse EA particles and to exactly attain a light shielding state by impressing a first voltage to generate an electric field arrangement effect between transparent electrode plates to increase the quantity of transmitted light and impressing a second voltage to generate an electrophoresis effect between these transparent electrode plates to decrease the quantity of transmission. SOLUTION: When the first voltage is impressed between the electrodes 5 and 7, the EA particles 11 are perpendicularly arranged between the transparent electrode layers 53 and 73 by the EA effect and chain bodies are formed. Namely, a light controller section 1 attains the light transmission state as the attenuation to the incident light quantity decreases. On the other hand, the EA particles 11 executes electrophoresis and eventually stick to the oneside surfaces of the transparent electrode layers 53, 73 when the second voltage is impressed between the



transparent electrodes 5 and 7. Namely, the light controller section 1 attains the light shielding state as the attenuation to the incident light quantity increases in the state that the second voltage is impressed thereon. The light shielding state is exactly and rapidly attained by impressing the second voltage different from the first voltage between the electrodes.

## **LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]

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